

Read May 28, 1772.

XXXVII. *Meteorological Observations at Ludgvan in Mount's-Bay, Cornwall, 1771: By William Borlase*, D. D. F. R. S. Communicated by Dr. Jeremiah Milles, Dean of Exeter, and F. R. S.*

Month.	Barometer.	State of the Weather and Wind.	Fahrenheit's Thermom.	Omb.
January	Highest 23 30,5 Lowest 19 29,0	The 1st at night a violent storm, and rain till midnight. On the 2d at 8 P. M. a violent storm, which continued all night; stormy the 3d and 4th; ditto the 26th at night; wind Westerly. On the 10th at night, after hail showers, a great fall of snow; the 11th great snow falling, with stormy blasts; the 12th deep snow and more falling, with frost; deep snow, and hard frost, the 13th, 14th, 15th, 16th, 17th, 18th, and 19th, snow lying deep, but the frost more gentle and the thaw came on; the 20th P. M. it thawed fast; on the 21st in the afternoon, the frost and snow was all gone; the rest of the month mostly mists with some hard showers of rain. Wind, during the storms, mists, and rain, Westerly for 16 days; during the cold, East, and East North East.	Monthly Med. of heat for each day. Highest 1 50 } Lowest 17 27½ } 39½	3 00 31 00 00

* This is the last paper of this kind, which the Society will receive from the excellent author of the Natural History of Cornwall, and several other learned works; death having, though at an advanced age, put a period to a life divided between the pursuit of useful and experimental knowledge, and the faithful discharge of every moral and religious duty. M. M.

Month.	Barometer.	State of the Weather and Wind.	Fahrenheit's Thermom.	Ombr.
February	Higheft 3 30, 16 Loweft 25 28, 87	Calm, the 3 ^d , 4 th , 5 th , 6 th , 7 th , 9 th , 14 th , 15 th , 17 th , 18 th , 21 st , 22 ^d ; hard froft with fome fnow on the 9 th , 10 th , 11 th , 12 th , 13 th , 14 th . It then thawed, and the reft was hazy, miffy, flowery, with fome high winds on the 15 th and 27 th . Wind, during the cold, Eaft and North, the reft South for 18 days.	Med. Higheft 21 52 } Loweft 11 30 }	Inches. 1,500
March	Higheft 19 30, 6 Loweft 12 29, 15	Calm, the 3 ^d , 4 th , 5 th , 6 th , 7 th , 8 th , 15 th , 18 th , 19 th , 20 th , 21 st , 27 th , 31 st . Froft 6 th , 7 th , 23 ^d , 25 th , 28 th ; hail, fnow, and fleet 23 ^d , 24 th , 25 th , 27 th , 28 th . Stormy the 1 st , 13 th . Wind 27 days from the Eaft mixed equally with North and South.	Higheft 13 49½ } Loweft 25 30 }	2,900
April	Higheft 18 30, 27 Loweft 30 29, 50	Calm, the 1 st , 5 th , 9 th , 10 th , 12 th , 13 th , 14 th , 19 th , 20 th , 21 st , 23 ^d , 26 th , 27 th , 29 th , 30 th . Hailed, fnow lying only 2 days, viz. the 15 th and 16 th . Reft, moftly fair, and dry. Wind 18 days from the Eaft; the reft mixed, and changeable.	Higheft 22 53 } Loweft 16 35 }	0,900
May	Higheft 23 30, 8 Loweft 7 29, 18	Calm, 1 st , 2 ^d , 3 ^d , 4 th , 5 th , 8 th , 9 th , 10 th , 11 th , 12 th , 13 th , 14 th , 15 th , 16 th , 17 th , 18 th , 19 th , 20 th , 21 st , 22 ^d , 23 ^d , 24 th , 25 th , in all 23 days. Stormy only on the 27 th . Wind Southerly 23 days; the reft not fo fixed.	Higheft 14 65½ } Loweft 1 45 }	2,250

Month.

Month.	Barometer.	State of the Weather and Wind.	Fahrenheit's Thermom.	Ombr.
June	Higheft 3 30,15 Loweft 1 29,54	Calm, 3d, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 20th, 21ft, 22d, 23d, 24th, 25th, 26th, 27th, 28th, 29th, 30th (in all 24 days) the wind variable and mixed, but the weather remarkably fettled, fair, and pleafant. On the 28th however, there was moft violent thunder, lightning, and a flood of rain, at the towns of Penryn and Falmouth, 20 miles diftant from Mount's-Bay to the Eaft; but in Mount's-Bay, the air was cloudy, and only fome diftant thunders; the lightning was fcarce vifible, and not a drop of rain.	Med. Higheft 27 71½ } Loweft 3 49 } 58 ⁹ / ₃₀ ½	Inches. 0,200
July	Higheft 14 30,15 Loweft 31 29,50	Calm, 1ft, 2d, 3d, 4th, 5th, 6th, 7th, 10th, 13th, 14th, 15th, 16th, 17th, 18th, 23d, 24th, 25th, 27th, 28th, 29th, 30th, the reft mixed. Wind 24 days from the Weft, mixed moftly with the South. N. B. As we had a moft unufual run of dry weather here in Cornwall; in other parts of the world, they had altogether as extraordinary a glut of rain. See, for particulars, the publick papers, from Berlin, Drefden, Hamburgh, and Vienna, &c. in Europe, and from Virginia in North America, where their inundations have not been remembered fo deftructive,	Higheft 17 72 } Loweft 31 54½ } 61 ⁹ / ₃₁ ½	0,720

Month.

Month.	Barometer.	State of the Weather and Wind.	Fahrenheit's Thermom.	Omb.
August	Highest 29 30.0 Lowest 19 29.40	Calm, 1st, 2d, 3d, 4th, 5th, 6th, 15th, 17th, 22d, 23d, 26th, 27th, 28th, 29th, 30th, 31st; the rest misty, fogs, and rains, with some gales interspersed. Wind 28 days from the West, mixed, nearly equal with North and South.	Med. Highest 31 66 } Lowest 1 54 }	Inches. 3.633
September	Highest 28 30.6 Lowest 20 29.30	Calm, 2d, 3d, 5th, 6th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 24th, 25th, 26th, 28th; the rest hazy, cloudy, windy, mixed with rain. Wind mostly West, mixed with the North.	Highest 1 61 } Lowest 26 46½ }	3.400
October	Highest 31 30.33 Lowest 13 28.85	Calm, only 8 days A. M. only 2 days P. M.; the rest rainy, windy, stormy. A violent storm on the 13th and 14th; the extrem on the 14th at 10 P. M. wind South West. N. B. on the 13th, at Caton near Lancaster, happened the greatest inundation in the memory of man. Wind 23 days from the West, mixed mostly with the South.	Highest 8 57 } Lowest 31 43 }	4.550
November	Highest 18 30.40 Lowest 11 29.40	Calm, 1st, 2d, 3d, 4th, 5th, 6th, 7th, 8th, 9th, 13th, 18th, 19th, 20th, 22d, 25th, 26th, 27th. On the 11th, 12th, 15th, 16th, stormy with rain and showers. Wind 24 days from the West, mixed mostly with the South. N. B. This month was very dry in Cornwall; but by the incessant rains in the middle of it, from the 15th to the 17th, such inundations happened at Newcastle, Durham, Barnard-castle, and near Carlisle, by the breaking out of Solway-mofs, as have never been known so destructive.	Highest 16 55 } Lowest 10 39 }	1.450
				Month.

Month.	Barometer.	State of the Weather and Wind.	Fahrenheit's Thermom.	Ombr.
December	Highest 30 30.4 Lowest 7 28.40	Calm, 1st, 2d, 8th, 13th, 17th, 18th. On Friday the 6th (new-moon at 8 A.M. wind South by East, and South East) about 8 P.M. it blew a violent storm, and setting full into Mount's-Bay at spring-tide, the sea was so high, and furious, that it demolished houses, cellars, boats, and walls, wherever it reached. The four towns on the shore all suffered; and it has been calculated, that not less than 5000 £. damage was done here that night, besides ships lost. It reached to the Eastward; and at Plymouth, about 60 miles off, they reckoned the tide was higher by ten feet than usual. The remainder of this month was showery, rainy, windy. Wind Westerly 24 days, mixed mostly with the South.	Med. Highest 11 54 } Lowest 30 36 } 46 $\frac{22}{11}$	Inches. 5.350

The whole Rain fallen in this Year 1771, } 30 $\frac{153}{1000}$
at Ludgvan, a very dry Year,